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# LIST OF PUBLICATIONS ON WOOD PRESERVATION

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## Government Publications

| Title | Date of Issue |
|---|---|
| *"The Decay of Timber and Methods of Preventing it." Bureau of Plant Industry Bulletin 14 | 1902 |
| "Seasoning of Timbers". Forest Service Bulletin 41, 25 cents | 1903 |
| "Cross Tie Forms and Rail Fastenings with Special Reference to Treated Timbers". Forest Service Bulletin 50, 15 cents | 1904 |
| "Report on Condition of Treated Timbers Laid in Texas, February, 1902. Forest Service Bulletin 51, 10 cents | 1904 |
| "Wood Preservation in the United States". Forest Service Bulletin 78, 10 cents | 1909 |
| *"The Fractional Distillation of Coal-Tar-Creosote". Forest Service Circular 80 | 1907 |
| "Quantity and Character of Creosote in Well Preserved Timbers". Forest Service Circular 98, 5 cents | 1907 |
| *"The Open Tank Method for the Treatment of Timber". Forest Service Circular 101 | 1907 |
| *"Brush and Tank Pole Treatments". Forest Service Circular 104 | 1907 |

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September 1919.

| Title | Date of Issue |
|---|---|
| "Prolonging the Life of Mine Timbers". Forest Service Circular 111, 5 cents | 1907 |
| *"The Analysis and Grading of Creosotes". Forest Service Circular 112 | 1908 |
| "The Preservative Treatment of Fence Posts". Forest Service Circular 117, 5 cents | 1907 |
| "Preservation of Piling Against Marine Wood Borers". Forest Service Circular 128, 5 cents | 1908 |
| "Experiments on the Strength of Treated Timber". (Second Edition), Forest Service Circular 39, 5 cents | 1908 |
| "Holding Force of Railroad Spikes in Wooden Ties". Forest Service Circular 46, 5 cents | 1906 |
| *"Wood Paving in the United States". Forest Service Circular 141 | 1908 |
| "The Seasoning and Preservative Treatment of Hemlock and Tamarack Cross Ties". Forest Service Circular 132, 5 cents | 1908 |
| "The Estimation of Moisture in Creosoted Wood". Forest Service Circular 134, 5 cents | 1908 |
| *"A Primer of Wood Preservation". Forest Service Circular 139 | 1908 |
| "Experiments with Railway Cross Ties". Forest Service Circular 146, 5 cents | 1908 |
| "Consumption of Wood Preservatives and Quantity of Wood Treated in 1910". Forest Service Circular 186, 5 cents | 1911 |
| *"Preservative Treatment of Loblolly Pine Cross Arms". Forest Service Circular 151 | 1908 |
| "Preservative Treatment of Poles". Forest Service Bulletin 84, 15 cents | 1911 |

| Title | Date of Issue |
|---|---|
| "Volatilization of Various Fractions of Creosote after their injection into Wood". Forest Service Circular 188, 5 cents | 1911 |
| "Modification of Sulphonation Test for Creosote". Forest Service Circular 191, 5 cents | 1911 |
| "Prevention of Sap Stain in Lumber". Forest Service Circular 192, 5 cents | 1912 |
| *"Progress Report on Wood Paving Experiments in Minneapolis". Forest Service Circular 194, 5 cents | 1912 |
| *"Quantity and Quality of Creosote found in Two Treated Piles after Long Service". Forest Service Circular 199 | 1912 |
| "The Preservation of Mine Timbers". Forest Service Bulletin 107, 10 cents | 1912 |
| "Commercial Creosotes". Forest Service Circular 206, 10 cents | 1912 |
| "The Absorption of Creosote by the Cell Walls of Wood". Forest Service Circular 200, 5 cents | 1912 |
| "Condition of Experimental Chestnut Poles in the Warren-Buffalo and Poughkeepsie-Newton Square Lines after Five and Eight Years' Service". Forest Service Circular 198, 5 cents | 1912 |
| "Prolonging the Life of Cross-Ties". Forest Service Bulletin 118, 15 cents | 1912 |
| "Service Tests of Ties". Forest Service Circular 209, 5 cents | 1912 |
| "Experiments in the Preservative Treatment of Red Oak and Hard Maple Cross-Ties". Forest Service Bulletin 126, 20 cents | 1913 |
| "Relative Resistance of Various Conifers to Injection with Creosote". Department of Agriculture Bulletin 101, 15 cents | 1914 |

| Title | Date of Issue |
|---|---|
| "Tests of Wood Preservatives". Department of Agriculture Bulletin 145, 10 cents | 1915 |
| "The Toxicity to Fungi of Various Oils and Salts". Department of Agriculture Bulletin 227, 10 cents | 1915 |
| "Strength Tests of Structural Timbers Treated by Commercial Wood Preserving Processes". Department of Agriculture Bulletin 286, 5 cents | 1915 |
| "The Preservative Treatment of Farm Timbers". Farmers' Bulletin 744** | 1916 |
| "Timber Storage Conditions in the Eastern and Southern States with Reference to Decay Problems". Department of Agriculture Bulletin 510, 20 cents | 1917 |
| "Relative Resistance of Various Hardwoods to Injection with Creosote". Department of Agriculture Bulletin 606, 15 cents | 1918 |
| "Absorption and Penetration of Tar and Creosote in Longleaf Pine". Department of Agriculture Bulletin 607, 15 cents | 1918 |

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| Title | Author | Where Published | Date |
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| *The Preservation of Structural Timbers from Decay | Winslow, C. P. | Proc. Eng. Soc. of Western Pa. Vol. 26, No. 9, pages 247-451. | Dec. 1910 |
| *Timber Preservation | Winslow, C. P. | Electric Traction Weekly | 1911 |
| *Structure of Commercial Woods in Relation to the Injection of Preservatives | Weiss, H. F. | Proc. American Wood Preservers Association pages 159-187 | 1912 |
| *Tests to Determine the Commercial Value of Wood Preservatives | Weiss, H. F. | Proc. 8th International Cong. of Applied Chem. Also Jour. Ind. & Eng. Chem. Vol. 5, No. 5 | 1912 |
| *Some Tests to Determine the Effect upon Absorption and Penetration of Mixing Tar with Creosote | Bond, F. M. | Proc. American Wood Preservers Association pages 216-274 | 1913 |
| *The Transmission of Air Pressure in Cross-Ties | Winslow, C. P. | Proc. American Wood Preservers Ass'n, pages 288-316 | 1913 |

| Title | Author | Where Published | Date |
|---|---|---|---|
| *A Comparison of Zinc Chloride with Coal-Tar Creosote for Preserving Cross-Ties | Weiss, H. F. | Proc. American Wood Preservers Association pages 71-83 | 1913 |
| *Condition of Experimental Poles in the Augusta-Savannah and Helena-Meldrim Lines | Teesdale, C. H. | Engineering News | Nov.27 1913 |
| *Method of Determining the Amount of $ZnCl_2$ in Treated Wood | Bateman, E. | Jour. Ind. & Eng. Chemistry | Jan. 1914 |
| *The Effect of Varying the Preliminary Air Pressure in Treating Ties upon the Absorption and Penetration of Creosote | Teesdale, C. H. | Proc. American Wood Preservers Assn. pages 323 to 351 | 1914 |
| *Preliminary Work in Fire Proofing Wood | Prince, R. E. | Proc. American Wood Preservers Assn. pages 158 to 172 | 1914 |
| *Air Seasoning of Timber | Kempfer, W. H. | Am. Ry. Eng. Ass'n. Bulletin 161 Do. Proceedings. Railway Review, part 2, pp. 163-232 | Nov. 1913 1914 Jan.10 1914 |
| *Toxicity of Various Wood Preservatives I, II | Humphrey, C. J. Fleming, R. M. | Jour.Ind. & Eng. Chemistry | Feb.'14 Aug.'15 |
| *The Protection of Ties from Mechanical Destruction | Weiss, H. F. | Proc. American Wood Preservers Ass'n. pages 249 to 260 | 1914 |
| | | Hardwood Record | Feb.1[illegible] 1914 |
| *Experiments on the Bleeding and Swelling of Southern Yellow Pine Paving Blocks | Teesdale, C. H. | Proc. American Soc. of Municipal Improvements. pages 267-286 | 1914 |
| *Efficiency of Various Parts of Coal-Tar Creosote Against Marine Borers | Teesdale, C. H. | Engineering Record | Sept.1 1913 |

| Title | Author | Where Published | Date |
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| *How the Wood Preserving Industry can Avoid Possible Injury Resulting from the War | Teesdale, C. H. | Engineering Record<br>Mfgrs. Record<br>So. Lumberman<br>Ry. Age Gazette | Sept. 26 1914<br>" 24-14<br>" 26-14<br>Oct. 21-1 |
| Decay in Wooden Bleachers | Teesdale, C. H. | Engineering Record<br>American Lumberman | Oct. 3-14<br>" 3-14 |
| *Marine Wood Borers | Teesdale, C. H. | Scientific American, Supplement | Dec. 5-14 |
| *Fire Proofing Wooden Shingles | Weiss, H. F. | American Roofer | Dec. 1914 |
| Records on the Life of Treated Timber in the United States | Weiss, H. F.<br>Teesdale, C. H. | Proc. American Wood Preservers Association pages 501-509 | 1915 |
| *Bleeding and Swelling of Paving Blocks | Teesdale, C. H. | Proc. American Wood Preservers Association pages 372-397 | 1915 |
| *History of Treated Wood Block Pavements in the United States | Teesdale, C. H. | Proc. American Wood Preservers Association pages 324-367 | 1915 |
| *Temperature Changes in Wood Under Treatment | Hunt, G. M. | Proc. American Wood Preservers Association pages 85-100 | 1915 |
| *Preservative Treatment of Timber | Weiss, H. F.<br>Teesdale, C. H. | International Engineering Congress | 1915 |
| *The Preservation of Wood from Decay | Teesdale, C. H. | The Armour Engineer | Mar. 191[illegible] |
| *The Preservative Treatment of Wooden Silos | Hunt, G. M. | American Lumberman | "13, " |
| Service Tests of Treated and Untreated Telephone Poles | Teesdale, C. H. | Telephony | Apr. 3," |

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|---|---|---|---|
| Experiments with Wood Paving Blocks (In Minneapolis) | Teesdale, C. H. | Municipal Journal | May 6, 1915 |
| *Tests on the Durability of Greenheart | Humphrey, C. J. | Mycologia, Vol. VII, pages 204-209 | July, 1915 |
| **Tests on the Inflammability of Untreated Wood and of Wood Treated with Fire Retarding Compounds | Prince, R. E. | Proc. National Fire Protection Association pages 108-157 | 1915 |
| *Rot in Stored Lumber | Humphrey, C. J. | American Lumberman, pages 32-33 | Aug.14, 1915 |
| *The Preservative Treatment of Farm Timbers | Hunt, Geo. M. | Wood Preserving | Oct. 1915 |
| *Saving of Creosote Oil in the Treatment of Piling | Teesdale, C. H. | Wood Preserving | Oct. " |
| The Application of the Davis Spot Test in the Preliminary Examination of Creosotes | Cloukey, H. | Jour.Ind. & Eng. Chemistry | Nov. 1915 |
| Some Factors Affecting the Application of Wood Preservation to Electric Railways | Winslow, C. P. and Teesdale, C. H. | Proc. American Electric Ry. Eng. Association | 1915 |
| *Strength Tests of Structural Timbers Treated by Commercial Wood Preserving Processes | Betts, H. S. and Newlin, J. A. | Railway Review | Feb.19 1916 |

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| Title | Author | Where Published | Date |
|---|---|---|---|
| *Service Tests of Ties in the Chicago & Northwestern Ry. near Janesville, Wis.; Northern Pacific Ry. near Plains, Mont.; and Northern Pacific Ry. near Maywood, Wash. | Teesdale, C. H. | Proc. Am. Ry. Eng. Ass'n, p. 463 | March 1916 |
| *Tie Durability Records | Winslow, C. P.<br>Teesdale, C. H. | Proc. Am. Ry. Eng. Ass'n, p. 463 | March 1916 |
| *Laboratory Tests on the Durability of American Woods | Humphrey, C. J. | Mycologia, Vol. 8 pp. 80-92 | March 1916 |
| *Sanitary Handling of Timber | Humphrey, C. J. | So. Lumberman | Apr. 1, 1916 |
| *Decay, An Important Factor in Plant Management | Hunt, Geo. M. | Wood Preserving pp. 30-31 | April 1916 |
| *The Use of Sodium Fluoride in Wood Preservation | Teesdale, C. H. | Wood Preserving | Oct. '16<br>Jan. '17 |
| *Recent Progress in Testing Wood Used by the Railroads | Weiss, H. F. | Proc. of the St. Louis Railway Club, pp. 21-29 | May 12, 1916 |
| *Service Tests of Cross-Ties | Teesdale, C. H. and Winslow C. P. | Proc. Amer. Wood Pres. Ass'n, pp. 265-330 | 1916 |
| Service Tests of Cross-Ties | Hicks, P. R. | Proc. Amer. Wood Pres. Ass'n<br>Proc. Amer. Ry. Eng. Ass'n | 1917<br>1917 |
| *Service Tests of Cross-Ties | Hicks, P. R. | Proc. Amer. Ry. Eng. Ass'n | 1918 |
| *Treated Wood Block for Factory Flooring and Miscellaneous Uses | Teesdale, C. H. | Proc. Amer. Wood Pres. Ass'n pp. 202-210 | 1916 |
| Quantity of Wood Preservatives Consumed and Amount of Wood Treated in the United States in 1915 | Helphenstine, R. K., Jr. | Proc. Amer. Wood Pres. Ass'n. pp. 380-396 | 1916 |
| Quantity of Wood Preservatives Consumed and Amount of Wood Treated in the United States in 1916 | Helphenstine, R. K., Jr. | Proc. Amer. Wood Pres. Ass'n, pp 496-515 | 1917 |

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| *The Relation between the Specific Gravity of Zinc Chloride Solutions and their Concentrations | Batemen, E. | Wood Preserving | July Sept. 1916 |
| Service Tests of Treated and Untreated Fence Posts | Bradley, H. | Am.Ry.Eng.Asso. Bull. 187 | July 1916 |
| *Service Tests of Posts and Poles | Hicks, P. R. | Proc.Amer.Wood Pres. Ass'n | 1917 |
| *The Treatment of Wood Paving Blocks | Teesdale, C. H. | Am.Soc.Munic. Improvements | 1916 |
| | | The Canadian Engineer | Oct. 26 1916 |
| | | Good Roads | Dec. 2 1916 |
| *The Relation between the Toxicity and the Volatility of Creosote Oil | Bateman, E. | Jour. Ind. & Eng. Chemistry Wood Preserving pp. 83-84 | Dec. 1916 Oct. Dec. 16 |
| *Grouping of Ties for Treatment | Winslow, C. P. | Railway Review | Jan. 27 |
| | | Proceedings Am. Wood Preservers Association | 1917 1917 |
| *Calculating the Volume of Poles and Piles | Hunt, Geo. M. | Proc. Am. Wood Preservers Ass'n | 1917 |
| Study of Wood Preservatives and Marine Borers | Teesdale, C. H. and Shackell, L. F. | Ry.Age Gazette | Nov. 2 1917 |
| *Service Tests of Cross-Ties | Hicks, P. R. | A.W.P.A. Proc., pp. 85-228 | 1917 |
| | | A.R.E.A. Proc., pp. 1291-1435 | 1917 |
| *Relation between Average Life of Ties and Per cent of Renewals | Thorne, M. E. | Railway Review A.W.P.A. Proc. | Jan. 26, 1918 |

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|---|---|---|---|
| Effect of Soaking and Subsequent Air-Seasoning of Douglas Fir upon Absorption and Penetration of Creosote | Hunt, Geo. M. | Wood Preserving pp. 50-53 | Oct.-Dec. 1917 |
| On the Toxicity to a Wood-Destroying Fungus of Maplewood Creosote and of Some of its Constituents and Derivatives, Together with a Comparison with Beechwood Creosote | Pieper, E. J.<br>Acree, S. F.<br>Humphrey, C. J. | Jour. Ind. & Eng. Chem. | June,1917 |
| The Chemical Composition of the Higher Fractions of Maplewood Creosote | Pieper, E. J.<br>Acree, S. F.<br>Humphrey, C. J. | Jour. Ind. & Eng. Chem. | May,1917 |
| Conditions of Creosoted Wood Block Pavements in Mobile, Ala., Shreveport, La, and a number of Texas Cities | Teesdale, C. H. | Proc. Amer. Wood Pres. Ass'n. | 1918 |
| Progress Report on Wood Block Paving Experiments in Minneapolis | Teesdale, C. H.<br>MacLean, J. D. | Proc. Amer. Wood Pres. Ass'n.<br>Eng.News Record | 1919<br>Jan.30,19 |
| The Apparent Relation between Rainfall and Durability of Zinc Treated Ties | Teesdale, C.H.<br>Allen, S. W. | Proc. Amer. Wood Pres. Ass'n. | 1919 |
| Some Recent Results on water-gas-tar creosote as a wood preservative | Teesdale, C. H. | Eng.News Record Vol. 82, No. 26 p. 1254 | June 26, 1919 |

## Mimeographed Circulars

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Copies of the following mimeographed circulars will be sent free upon application to the Director, Forest Products Laboratory, Madison, Wisconsin, as long as the supply lasts:

"Preservation of Timber by the Steeping Process."
"Partial Bibliography of the American Wood Preserving Industry."
"Durability of Treated and Untreated Posts and Poles."
"Specifications for Creosote Oil for Brush and Open Tank Treatment."
"Specifications for Preservatives for Wood Block Pavements." Adopted by American Wood Preservers Association, 1917.
"List of Creosote Producers in the United States."
"Treating Ties by the Open Tank Process."
"Preservative Treatment and Staining of Shingles."
"The Fireproofing of Wood."
"Forest Service Experiments on the Prevention of Sap Stain."
"Suggested Experiments with Sap Stain Preventives."
"Durability of Untreated Piling Above Mean Low Water."
"Specifications for Creosote Oil for Ties and Structural Timbers."
"Specifications for Creosote Coal-Tar Solution for Ties and Structural Timbers."
"The Use of Fluorides in Wood Preservation."
"The Preservative Treatment of Wooden Silos."
"The Treatment of Factory Roof Timbers."

## Technical Notes

A-1 - Hints on storing lumber to prevent decay.
A-3 - How to make factory roof timbers last longer.
A-4 - Preventing damage to logs in storage.
F-15- Effect of time of cutting timber on its durability.
F-20- Durability of untreated piling above low tide.
F-21- Calculating the volume of piles and poles.

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